MIXED 2D AND 3D DE-INTERLACER

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ABSTRACT OF THE DISCLOSURE

A de-interlacing methodology generates frames from interlaced video signals by incorporating data from multiple fields into an interpolation-based de-interlacing process. Pixels directly above and below a blank pixel location and pixels immediately before and after the blank pixel location (in the fields immediately preceding and following, respectively, the blank pixel field) can be used to interpolate a pixel value for the blank pixel location. The use of pixel data from multiple fields improves the resolution of the interpolation process, thereby improving output frame accuracy. Adjacent pixel values can also be adjusted to further improve the consistency of the visual display provided by the output frames.